

GRADUATION DEADLINE IS MONDAY

If you want to honor your son or daughter in the graduation issue of the SHELLEGRAPH on the occasion of his or her graduation from high school or college, you must turn in the information and photograph by June 9. For the convenience of those employees who may have lost the "Proud Parent Form" published last month, another form is reproduced on page 4 of this issue of the paper. Don't delay--send in your youngster's picture and graduation information NOW. Remember, the DEADLINE IS MONDAY. JUNE 9.

LARKIN TO JOIN NORCO REFINERY STAFF NICHOLSON NAMED TO ENGINEERING FIELD POST



LARKIN

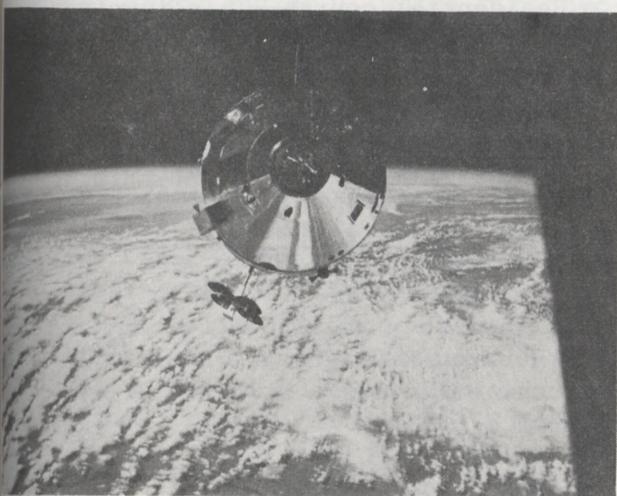


NICHOLSON

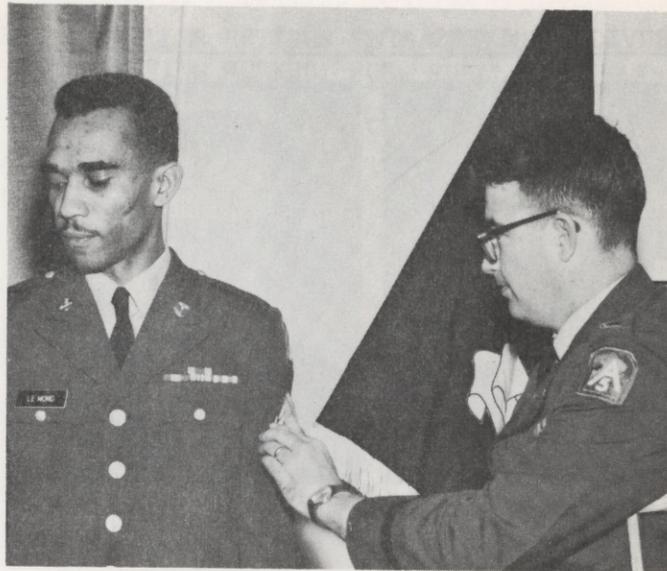
I. S. Larkin, Manager of the Engineering Field Department, has been appointed to Chief Engineer at the Norco Refinery effective June 16, 1969, and J. E. Nicholson, Manager of the Engineering Services Department, is transferring to Manager of the Engineering Field Department replacing Larkin announced Houston Refinery Manager Leonard T. Wilson recently.

"Is" Larkin joined Shell at the Houston Refinery in February, 1947, following his graduation from Duke University with a B.S. degree in mechanical engineering. After various technical assignments at Head Office and the Martinez Refinery, he

(Continued on Page 4 - See ENGINEERING)



ON TARGET!--SHELL (R) 405 hydrazine catalyst is used in space systems to maintain vehicle attitude control and flight maneuverability.



PROMOTED---Laurence Lemond, Jr., son of Houston Refinery's J. L. Lemond, Engineering Field, was promoted to Army Sergeant First Class during ceremonies at Fort Carson, Colorado. Presenting the insignia is 1st Lieutenant Frank H. Gee. Sgt. Lemond entered the Army in May, 1960, and completed basic training at Fort Ord, California. He is a 1957 graduate of Drew High School in Crosby.

SHELLEGRAPH



No. 339

Friday, June 6, 1969

SHELL PRODUCTS BEING USED IN SPACE AS NASA ROCKETS FLY TO MOON

Since the start of the space program, a variety of Shell products have been supplied to contractors working for the National Aeronautics and Space Administration (NASA). But because government policy does not permit disclosure of the ultimate application of supplied products, Shell cannot state positively that all of these products are being used in any particular space system or vehicle.

It is known, however, that four Shell products have been used: Shell hydrogen peroxide, SHELL (R) 405 Catalyst, AERO-SHELL (R) Grease-15, and Shell epoxy resins.

High-strength hydrogen peroxide was initially manufactured by Shell Chemical Company for use in the Navy's first-generation supersonic aircraft. Its use as a monopropellant in the aerospace industry has been in areas of station maintenance, space maneuvering, thrust control and power generation. Specific examples of space systems which used this hydrogen peroxide include the Mercury Spacecraft, Lunar Landing Simulator, Astronaut Maneuvering Unit, and the Personnel Rocket Belt.

(Continued on Page 3 - See PRODUCTS)

SERVICE ANNIVERSARIES

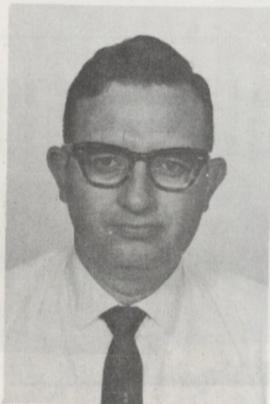


40 Years
A. J.
ENGLISHBY
Engineering
Field



25 Years
R. L.
JUNELL
Engineering
Field

BARNES JOINS HEAD OFFICE STAFF
BLUNT APPOINTED GROUP LEADER



BARNES



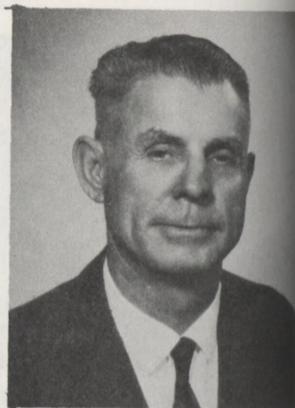
BLUNT

R. F. Barnes, Group Leader in the Technological Department and presently on a special assignment at the Norco Refinery, will be transferred to Head Office Manufacturing Operations as a Senior Engineer, effective July 1, 1969. J. H. Blunt, an Engineer in the Lubricating Oils Department, has replaced Barnes as Group Leader, effective June 1, 1969, announced Houston Refinery Manager Leonard T. Wilson recently.

Dick Barnes was employed as a Junior Technologist in the Technological Department at the Houston Refinery in June, 1953. He was reassigned to the Research Laboratory as a Research Engineer in July, 1957, upon the completion of a two-year tour of duty with the Air Force. After various assignments in the Aromatics, Technological, and Economics and Scheduling Departments, he was appointed to the position of Group Leader in January, 1966.

Henry Blunt was employed by Shell in the Midland Area as an Engineers Assistant in the Gas Department for the summer of 1964. He was employed permanently at the Houston Refinery as an Engineer in the Technological Department in August, 1966. In November, 1967, he began his assignment in Lubricating Oils.

25 Years
W. G.
VANN
Engineering
Field



W. E. HALE AND R. A. LOUCKS TO ATTEND
10TH FUNDAMENTALS OF MANAGEMENT PROGRAM



HALE



LOUCKS

W. E. Hale, Assistant Manager Industrial Relations, and R. A. Loucks, Manager Construction On-Site, will attend Shell's Tenth Fundamentals of Management Program to be held from June 15 to 26, at Tuxedo Park, N. Y.

Hale and Loucks will be among 22 young managers and staff members from various Shell locations across the country who are participating in a program aimed at self-development. The program provides understanding of what it takes to be a successful manager, including the application of basic management principles.

Begun in 1965, the program has three phases:

- o Individual study--Several weeks before the residential course at Tuxedo Park, participants are furnished with selected reading materials.

- o Residential course--This involves two weeks of intensive study of the important aspects of a manager's job.

- o Self-development plan--Each participant prepares his own plan, setting forth specific activities and study to accelerate his self-development during a two- to three-year period.

SHELLEGRAPH

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P. H. FISCHER---Editor

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READY FOR BLAST OFF---Another space vehicle on the way to the launch pad. Shell's AeroShell^(R) Grease-15 is used as a lubricant on these huge crawler-transporters.

PRODUCTS - Continued from Page 1

The success of the highly celebrated "space walks" depended, in part, on the operation of a hand-held maneuvering unit powered by control rockets using hydrazine catalyst. SHELL 405 Catalyst, developed in 1963 for NASA by a team of Shell chemists, was the catalyst used to make sure those rockets worked. Considered the best catalyst to decompose hydrazine in attitude control engines and gas generators, its development was termed a breakthrough in propulsion technology by NASA.

SHELL 405 Catalyst was used in the recent Apollo 8 moon-orbit mission and in other space systems making deep space probes. The catalyst was instrumental in maintaining system attitude control and flight maneuverability, elements vital to the success of any space mission. Catalyst control rockets are being tested for use in the Maneuvering Work Platform (MWP) and the Space Taxi, space service stations for long space flights.

Apollo 8 commander, Colonel Frank Borman, and Apollo Control in Houston, talked about Shell's platformate without realizing their conversation was being recorded by a tape system lubricated by AEROSHELL Grease-15, another Shell product. This was the second trip to the moon environs for AEROSHELL. When Ranger 7, which first successfully photographed the moon, made its historic flight, AEROSHELL Grease-15 was selected to lubricate the swivelling mechanism of the high gain antenna - the one which transmitted the pictures back to earth. A versatile performer, AEROSHELL Grease-15 also serves as a lubricating agent for the giant crawler/transporter which transports all space vehicles from assembly centers to the launch pad.

At the launch area, another Shell product is at work - Shell epoxy resins. The five engines of the first stage Saturn-5 rocket generate 7.5 million pounds of thrust to boost a space vehicle off into space. They also have an explosive potential equal to that of 1,222,830 pounds of TNT. The epoxy resins serve as protective covering material for these facilities against the intense heat generated at the launch area.

F. L. MILLER RETIRES FROM REFINERY AFTER HAVING WORKED FOR SHELL SINCE 1952

F. L. MILLER



F. L. Miller, an Operator No. 1 in the Refinery's Lubricating Oils Department, has retired after having worked for Shell since 1952.

He grew up in Washington, Indiana, where he was also graduated from high school. He entered the United States Army in January, 1941, and attended the U. S. Army school in Orlando, Florida, in 1942. Miller attained the rank of Technical Sergeant and was discharged in 1945. During his service in the Army, he was awarded the EAME Theatre Medal with 5 Bronze Service Stars, Meritorious Service Unit Plaque, and the Good Conduct Medal.

He is currently making his retirement home at 2313 Pickerton in Deer Park

WELCOME TO SHELL

ROBERTA REEVES Stenographer Treasury



WHO AM I ??

- I am more powerful than the combined armies of the world.
- I have destroyed more men than all the wars of the nation.
- I am more deadly than bullets, and I have wrecked more homes than the mightiest guns.
- I steal in the U.S. alone, over \$ 500 million each year.
- I spare no one, and I find my victims among the rich and the poor alike, the young and the old, the strong and the weak, widows and orphans.
- I loom up to such proportions that I cast my shadow over every field of labor, from the turning of every grindstone to the moving of every railroad train.
- I massacre thousands upon thousands of wage earners in a year.
- I lurk in unseen places, and do most of my work silently.
- You are warned against me, but you do not heed.
- I am relentless.
- I am everywhere in the home, on the street, in the factory, at railroad crossings and on the sea.
- I am sickness, degradation and death, and yet few seek to avoid me.
- I destroy, crush and maim; I give nothing, but take all.
- I am your worst enemy.
- I AM CARELESSNESS.

(Anon) Taken from: Orlando Fed Chatter



CLASSIFIEDS

FOR SALE

3 glass jalousie windows - 36" x 48"; 1 glass jalousie door - 2'8" x 6'8", complete with screens; 1 bathroom lavatory. All in good working condition. Telephone - GR-2-0245

1965 Galaxie 500; 2-door hardtop, radio, and air. Excellent condition. Telephone - 479-1240

Bricks - 6 or 7 thousand -- \$75.00 For further information, please telephone GR-2-8445.

1955 Chevrolet motor; 6 cylinder; good running condition. \$40.00 Telephone - WA-6-5428

WANTED

To join car pool from Pasadena (Garner off South Shaver) to Refinery on 8:00 a.m. to 4:30 p.m. shift. Telephone - 477-3959

ENGINEERING - Continued from Page 1

returned to the Houston Refinery as Manager of the Engineering Office Department in September, 1966, and assumed the position of Manager of the Engineering Field Department in July, 1967.

John Nicholson, who holds a B.S. degree in mechanical engineering from the Massachusetts Institute of Technology, joined Shell at the Wood River Refinery in 1953. Following a variety of assignments at Head Office and Martinez Refinery, he transferred to the Houston Refinery as Manager of the Engineering Office in July, 1967, and assumed the position of Manager of the Engineering Services Department in May, 1968.

FOR SALE

Pet rabbit, cage, and feed. \$5.00 Telephone - 479-2769

Noblet clarinet by Le Blanc. \$100.00 Telephone - 471-1411 after 4 p.m.

Several hundred feet of outside telephone wire. Telephone - GR-2-0018

One acre lot on waterfront with 3 bedroom, furnished home; air-conditioned; fireplace; pier; double boathouse with 14' aluminum boat; 10 h.p. motor. \$13,000 complete. Telephone - 473-7463 after 5 p.m.

Vacuum cleaner, 1" heavy duty electric drill, and lawnmowers, light and heavy duty. Telephone - GR-2-5988

Gibson box guitar and case. Like new. Going into service. Telephone - 472-7637

AKC registered miniature black poodles - 6 weeks old, champion blood line - English and German. Five generation pedigree. Three males - \$100/Ea. Telephone - 645-7228

Beautiful 4-bedroom house in Deer Park. 1-year old modern contemporary. Assume: 6 1/2% loan - Equity: \$4,000. Telephone - 479-2038

5 weatherheads with 20 feet of 1" conduit, each with leads - \$3.50 each; Frigidaire dryer, old but in good condition - \$25.00. Telephone - GR-2-0018

PROUD PARENT FORM---DEADLINE IS JUNE 9, 1969

NAME OF GRADUATE _____
PARENT'S NAME _____ DEPARTMENT _____
SCHOOL _____
FIELD OF STUDY _____
DEGREE (IF COLLEGE) _____
SCHOOL ACTIVITIES _____
HONORS _____
FUTURE PLANS _____

Attach photo of grad with his or her and the parent's name on back. Mail by June 9, 1969, to SHELEGRAPH, P. O. BOX 100, Deer Park, Texas 77536, or via Company mail to SHELEGRAPH.